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1 [Lessons learned from autonomous sciencecraft experiment](#)

 Steve Chien, Rob Sherwood, Daniel Tran, Benjamin Cichy, Gregg Rabideau, Rebecca Castaño, Ashli Davies, Dan Mandl, Stuart Frye, Bruce Trout, Jeff D'Agostino, Seth Shulman, Darrell Boyer, Sandra Hayden, Adam Sweet, Scott Christa
 July 2005 AAMAS '05: Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems

Publisher: ACM

Full text available: pdf(705.19 KB)

[Additional Information: full citation, abstract, references](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 44, Citation Count: 0

An Autonomous Science Agent has been flying onboard the Earth Observing One Spacecraft since 2003. This software enables the spacecraft to autonomously detect and responds to science events occurring on the Earth such as volcanoes, flooding, and snow ...

2 [Launch commit criteria monitoring agent](#)

 Glenn S. Semmel, Steven R. Davis, Kurt W. Leucht, Dan A. Rowe, Andrew O. Kelly, Ladislav Böllóni
 July 2005 AAMAS '05: Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems

Publisher: ACM

Full text available: pdf(500.45 KB)

[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 58, Citation Count: 0

The Spaceport Processing Systems Branch at NASA Kennedy Space Center has developed and deployed a software agent to monitor the Space Shuttle's ground processing telemetry stream. application, the Launch Commit Criteria Monitoring Agent, increases ...

Keywords: agent, expert system, rule-based programming

3 [Implantable medical devices as agents and part of multiagent systems](#)

 Toby Drew, Maria Gini
 May 2006 AAMAS '06: Proceedings of the fifth international joint conference on Autonomous agents and multiagent systems

Publisher: ACM

Full text available: pdf(297.91 KB)

[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 145, Citation Count: 0

The consideration of medical implants as an increasingly important population of isolated agents valuable perspective that should not be ignored by the agent community. Implanted Medical Device (IMD) applications are complex, naturally distributed, ...

Keywords: agent, implant, implantable agent, medical device, medical monitoring, multiagent

4 Self-healing in modern operating systems



Michael W. Shapiro

December 2004 Queue, Volume 2 Issue 9

Publisher: ACM

Full text available: pdf(872.84 KB) html(32.65 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 238, Citation Count: 1

A few early steps show there's a long (and bumpy) road ahead.

5 Conscientious software



Richard P. Gabriel, Ron Goldman

October 2006 OOPSLA '06: Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications

Publisher: ACM

Full text available: pdf(1.52 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 183, Citation Count: 1

Software needs to grow up and become responsible for itself and its own future by participating in its own installation and customization, maintaining its own health, and adapting itself to new circumstances, new users, and new uses. To create such software ...

Keywords: autopoiesis, continuous (re)design, emergence, feedback, repair, robustness, self-sustaining systems, self-testing, software, software complexity, stigmergy

6 Conscientious software



Richard P. Gabriel, Ron Goldman

October 2006 ACM SIGPLAN Notices, Volume 41 Issue 10

Publisher: ACM

Full text available: pdf(1.52 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 183, Citation Count: 1

Software needs to grow up and become responsible for itself and its own future by participating in its own installation and customization, maintaining its own health, and adapting itself to new circumstances, new users, and new uses. To create such software ...

Keywords: autopoiesis, continuous (re)design, emergence, feedback, repair, robustness, self-sustaining systems, self-testing, software, software complexity, stigmergy

7 Proceedings of the 37th SIGCSE technical symposium on Computer science education



Doug Baldwin, Paul Tymann, Susan Haller, Ingrid Russell

March 2006 proceeding

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to Houston for the 37th year of the SIGCSE Technical Symposium on Computer Science Education. We are excited about SIGCSE 2006, and we hope you have as much fun attending the Symposium as we have had planning it. There is much to see ...

8 Locally adaptive dimensionality reduction for indexing large time series databases



Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, Michael Pazzani

June 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 2

Publisher: ACM

Full text available: [pdf\(1.48 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 131, Citation Count: 11

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data. The most promising solutions involve performing dimensionality reduction ...

Keywords: Dimensionality reduction, indexing, time-series similarity retrieval

9 Scalable statistical bug isolation



Ben Liblit, Mayur Naik, Alice X. Zheng, Alex Aiken, Michael I. Jordan

June 2005 PLDI '05: Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation

Publisher: ACM

Full text available: [pdf\(180.44 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 113, Citation Count: 24

We present a statistical debugging algorithm that isolates bugs in programs containing multiple undiagnosed bugs. Earlier statistical algorithms that focus solely on identifying predictors that correlate with program failure perform poorly when there are ...

Keywords: bug isolation, feature selection, invariants, random sampling, statistical debugging

10 Implementing software on resource-constrained mobile sensors: experiences with Impala and ZebraNet



Ting Liu, Christopher M. Sadler, Pei Zhang, Margaret Martonosi

June 2004 MobiSys '04: Proceedings of the 2nd international conference on Mobile systems, applications, and services

Publisher: ACM

Full text available: [pdf\(3.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 180, Citation Count: 10

ZebraNet is a mobile, wireless sensor network in which nodes move throughout an environment working to gather and process information about their surroundings[10]. As in many sensor or mobile systems, nodes have critical resource constraints such as ...

Keywords: event handling, middleware system, network communications, operation scheduling, sensor networks

11 Electronic shepherd - a low-cost, low-bandwidth, wireless network system



Bjørn Thorstensen, Tore Syversen, Trond-Are Bjørnvold, Tron Walseth

June 2004 MobiSys '04: Proceedings of the 2nd international conference on Mobile systems, applications, and services

Publisher: ACM

Full text available: [pdf\(409.68 KB\)](#)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 177, Citation Count: 1

This paper reports a new novel low-cost, wireless communication network system, called the "Electronic Shepherd" (ES). The system is innovative in the way that it supports flock behavior, meaning that a flock leader monitors the state of the other elements ...

Keywords: GPRS, GPS, animal tracking, cost-effective communication, low-power equipment, computing, short-range communication, wireless network

12 A tool suite for aspect-oriented requirements engineering



Ruzanna Chitchyan, Americo Sampaio, Awais Rashid, Paul Rayson

May 2006 EA '06: Proceedings of the 2006 international workshop on Early aspects at ICSE

Publisher: ACM

Full text available: [pdf\(155.74 KB\)](#)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 125, Citation Count: 1

Aspect-Oriented Requirements Engineering (AORE) supports identification of crosscutting, aspect requirements as well as analysis of their influence on other requirements of the system. Identifying and analyzing aspectual requirements manually is very ...

Keywords: aspect-oriented requirements engineering, aspect-oriented software development, identification, requirements analysis, requirements composition

13 Scalable statistical bug isolation



Ben Liblit, Mayur Naik, Alice X. Zheng, Alex Aiken, Michael I. Jordan

June 2005 ACM SIGPLAN Notices, Volume 40 Issue 6

Publisher: ACM

Full text available: [pdf\(180.44 KB\)](#)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 113, Citation Count: 24

We present a statistical debugging algorithm that isolates bugs in programs containing multiple undiagnosed bugs. Earlier statistical algorithms that focus solely on identifying predictors that correlate with program failure perform poorly when there ...

Keywords: bug isolation, feature selection, invariants, random sampling, statistical debugging

14 Routing algorithms for delay-insensitive and delay-sensitive applications in underwater sensor networks



Dario Pompili, Tommaso Melodia, Ian F. Akyildiz

September 2006 MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: [pdf\(492.59 KB\)](#)

Additional Information: full citation, abstract, references, cited by, index terms


Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 509, Citation Count: 2

Underwater sensor networks consist of sensors and vehicles deployed to perform collaborative monitoring tasks over a given region. Underwater sensor networks will find applications in ocean

graphic data collection, pollution monitoring, offshore exploration, ...

Keywords: routing algorithms, underwater sensor networks

15 [The OptiPuter](#)


 Larry L. Smarr, Andrew A. Chien, Tom DeFanti, Jason Leigh, Philip M. Papadopoulos
November 2003 Communications of the ACM, Volume 46 Issue 11
Publisher: ACM

Full text available:  [pdf\(1.63 MB\)](#)  [html\(35.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 137, Citation Count: 11

This architecture/infrastructure of parallel optical networks couples data exploration, visualization collaboration technologies through IP at multi-gigabit speeds.

16 [Multimodal optimizations: can legacy systems defeat them?](#)

 John Harper, Donal Sweeney
November 2001 PUI '01: Proceedings of the 2001 workshop on Perceptive user interfaces
Publisher: ACM


Full text available:  [pdf\(3.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 14, Citation Count: 0

This paper describes several results obtained during the implementation and evaluation of a speech complemented interface to a vehicle monitoring system. A speech complemented interface is one wherein the operations at the interface (keyboard and mouse, ...

Keywords: legacy systems, mental models, multimodal interfaces, task analysis, user modeling

17 [The delft MS curriculum on embedded systems](#)

 Hans-Gerhard Gross, Arjan van Gemund
January 2007 ACM SIGBED Review, Volume 4 Issue 1
Publisher: ACM


Full text available:  [pdf\(462.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 101, Citation Count: 0

Embedded Systems (ES) is the fastest growing sector in ICT technology [1][18]. Also in the Dutch economy, this sector is believed to become an important generator of added value. In this paper we describe a new MS program on ES that is offered in Delft ...

Keywords: curriculum, embedded systems

18 [Scheduling time-constrained instructions on pipelined processors](#)

 Allen Leung, Krishna V. Palem, Amir Pnueli
January 2001 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 23 Issue 1
Publisher: ACM

Full text available:  [pdf\(357.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 51, Citation Count: 2

In this work we investigate the problem of scheduling instructions on idealized microprocessors with multiple pipelines, in the presence of precedence constraints, release-times, deadlines, and late

constraints. A latency of lij ...

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